

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) An image processing apparatus for applying desired effects to a stored image, the apparatus comprising:

an optical reader;

a feed mechanism for ~~feeding a~~ feeding a card having an array of dots past the optical reader, planar element on which a printed, two-dimensional pattern having a certain resolution is carried, to the reader, the reader having a sensor with a resolution capacity of at least twice the resolution of the two-dimensional pattern and being configured to generate program data represented by the two-dimensional pattern in an external format, the data itself representing an image processing program;

an optical reader interface that is connected to the optical reader, the optical reader interface able to control the optical reader to detect a data area on the card, to detect a bit pattern corresponding to the array of dots in the data area, and to produce raw data from the bit pattern while the card is being fed past the optical reader, the raw data used to produce an image processing script; and,

~~to receive the program data from the reader, the reader interface being configured to transform the program data to an internal format suitable for processing; and~~

a processor that is connected to ~~both the reader and the~~ optical reader interface to receive and to control operation of the reader and the reader interface and to apply the image processing program script to the stored image to generate an output image with the desired effects; [[.]]

whereby, the array of dots defines a first resolution and the optical reader has a sensor with a second resolution at least twice the first resolution.

2. (Currently amended) ~~An~~ The image processing apparatus as claimed in claim 1, in which the second reader has a resolution capacity of is at least three times the first resolution, ~~of the two-dimensional pattern.~~

3. (Currently amended) ~~An~~ The image processing apparatus as claimed in claim 1, in which the optical reader interface is configured to detect an area on the planar element on

~~which the two dimensional pattern is carried, to detect a bit pattern of the two dimensional pattern and to write the bit pattern as a byte pattern.~~

4. (Currently amended) ~~An~~ The image processing apparatus as claimed in claim 3, in which the optical reader interface is configured to descramble and XOR the byte pattern.

5. (Currently amended) ~~An~~ The image processing apparatus as claimed in claim 4, in which the optical reader interface is configured to decode the byte pattern.

6. (Currently amended) ~~An~~ The image processing apparatus as claimed in claim 1, which includes a data storage device that is operatively connected to ~~the reader and the processor so that and able to store the image processing script program, in its internal format, can be written to and stored in the data storage device.~~

7. (Currently amended) ~~An~~ The image processing apparatus as claimed in claim 6, in which the processor includes a VLIW processor that is connected to the optical reader interface via a FIFO buffer so that the optical reader interface ~~can~~ is able to write data from the optical reader to the FIFO buffer and the VLIW processor ~~can~~ is able to process and store the data received from the FIFO buffer.

8. (Currently amended) A camera which comprises:
a housing;

an image sensor positioned on the housing for sensing a viewed image and
generating pixel data representing the image;

~~an optical reader positioned on the housing;~~

~~— a feed mechanism positioned on the housing for feeding a planar element on which a printed, two dimensional pattern having a certain resolution is carried, to the reader, the reader having a sensor with a resolution capacity of at least twice the resolution of the two dimensional pattern and being configured to generate program data represented by the two dimensional pattern in an external format, the data itself representing an image processing program; —~~

an optical reader;

a feed mechanism for feeding a card having an array of dots past the optical reader;

an optical reader interface that is connected to the optical reader, the optical reader interface able to control the optical reader to detect a data area on the card, to detect a bit pattern corresponding to the array of dots in the data area, and to produce raw data from the bit pattern while the card is being fed past the optical reader, the raw data used to produce an image processing script; and,

a central processor which comprises an image sensor interface that is connected to the image sensor to receive the pixel data from the image sensor, and that is connected to the optical reader interface to receive and apply the image processing script to the pixel data so that the pixel data can be transformed and written to a data storage device;

whereby, the array of dots defines a first resolution and the optical reader has a sensor with a second resolution at least twice the first resolution.

~~a reader interface that is connected to the reader to receive the program data from the reader, the reader interface being configured to transform the program data to an internal format suitable for processing; and~~

~~a processing assembly that is configured to control operation of the image sensor, the image sensor interface, the reader and the reader interface and to apply the image processing program to the stored, transformed pixel data to generate an output image with desired effects.~~